

# Service Manual

Stereo Integrated Amplifier

Amplifier

## SU-VX820



### Colour

(K) ..... Black Type

### Areas

Suffix for Model No.	Area	Colour
(EB)	Great Britain.	(K)
(EG)	Europe	

## SPECIFICATIONS (DIN 45 500)

### ■ MAIN AMP. SECTION (POWER AMP. DIRECT input)

20 Hz~20 kHz continuous power output both channels driven:	2×90 W (8Ω)
1 kHz continuous power output both channels driven (THD: 1%):	2×100 W (8Ω) 2×135 W (4Ω)
63 Hz~12.5 kHz continuous power output both channels driven (THD: 0.7%):	2×90 W (8Ω) 2×125 W (4Ω)
Total harmonic distortion rated power at 20 Hz~20 kHz:	0.007% (8Ω)
half power at 20 Hz~20 kHz:	0.005% (8Ω)
half power at 1 kHz:	0.0009% (8Ω) 0.002% (4Ω)
Intermodulation distortion (50 Hz: 7 kHz=4:1, SMPTE) rated power:	0.007% (8Ω)
Residual hum and noise:	0.2 mV
Damping factor:	80 (8Ω) 40 (4Ω)
Headphones output level/impedance:	635 mV/330Ω
Load impedance	
A or B, BI-WIRING:	4~16Ω
A and B:	8~16Ω

### ■ PRE AMP. SECTION

Input sensitivity/Impedance	
PHONO MM:	2.5 mV/47 kΩ
MC:	250 μV/220Ω
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT:	150 mV/22 kΩ
POWER AMP. DIRECT:	1 V/18 kΩ
Phono maximum input voltage (1 kHz, RMS)	
MM:	170 mV
MC:	15 mV

### S/N (Rated power, 4Ω)

PHONO MM:	79 dB (86 dB, IHF '66)
MC:	68 dB (68 dB, IHF '66)

### TUNER, CD, AUX, TAPE 1, TAPE 2/DAT:

POWER AMP. DIRECT:	97 dB (100 dB, IHF '66)
S/N at -26 dB power (4Ω)	106 dB (115 dB, IHF '66)

PHONO MM:	77 dB
MC:	67 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT:	84 dB

### S/N at 50 mW power (4Ω)

PHONO MM:	75 dB
MC:	67 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT:	78 dB

### Frequency response

PHONO MM:	RIAA standard curve ±0.8 dB (30 Hz~15 kHz)
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### TUNER, CD, AUX, TAPE 1, TAPE 2/DAT:

POWER AMP. DIRECT:	3 Hz~100 kHz (+0, -3 dB) +0 dB, -0.2 dB (20 Hz~20 kHz) 3 Hz~120 kHz (+0, -3 dB) +0 dB, -0.2 dB (20 Hz~20 kHz)
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### Tone controls

BASS:	50 Hz, +10~-10 dB
TREBLE:	20 kHz, +10~-10 dB

Muting: -20 dB

Subsonic filter: 20 Hz, -12 dB/oct

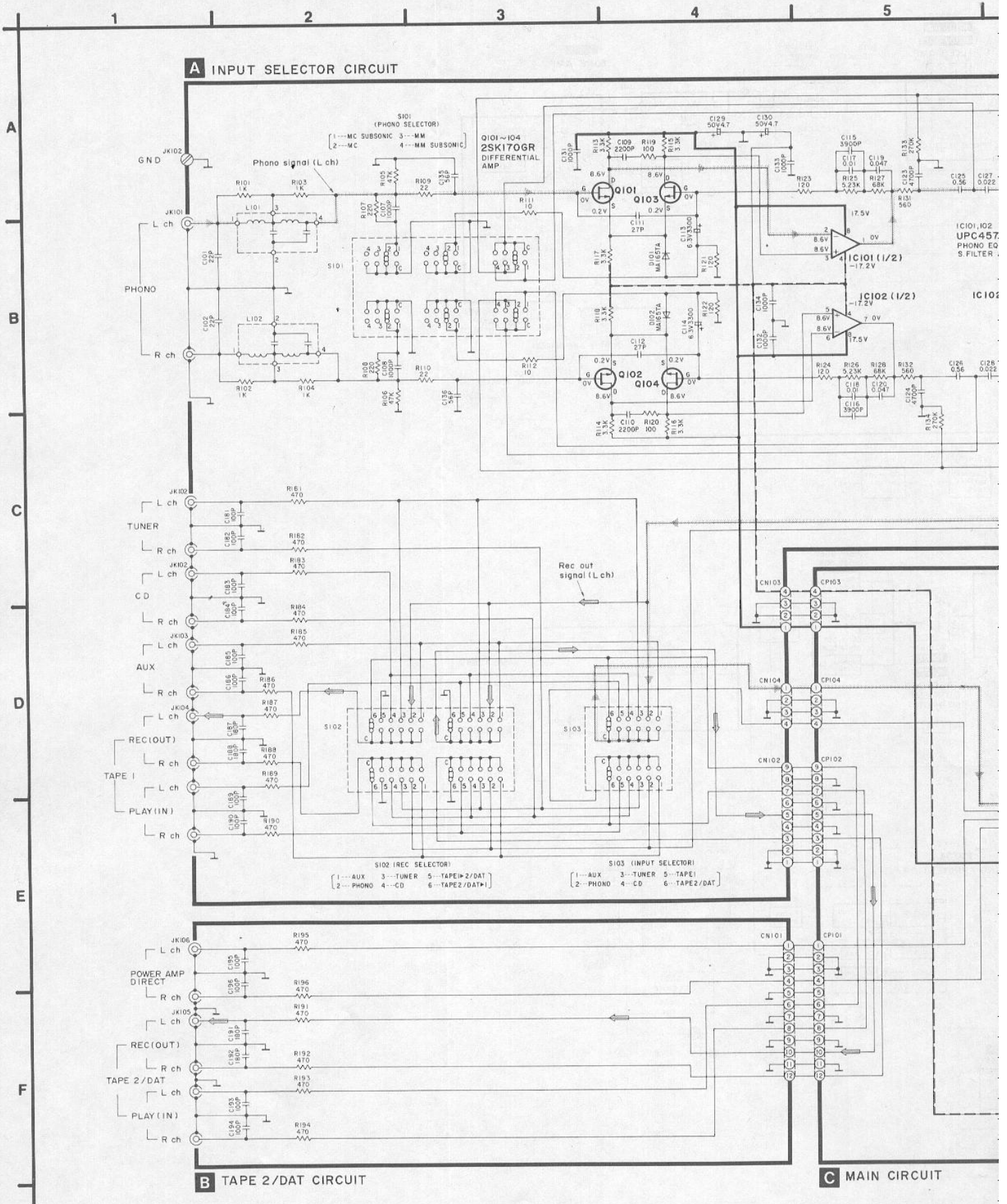
Loudness control (volume at -30 dB): 50 Hz, +9 dB

### Output voltage

TAPE 1, TAPE 2/DAT REC OUT:	150 mV
Channel balance, (AUX 250 Hz~6.3 kHz):	±1 dB
Channel separation (AUX 1 kHz):	50 dB

# Technics

**SCHEMATIC DIAGRAM** (Parts list on pages 23~26.)



**E** VOLUME CIRCUIT

**D** OPERATION CIRCUIT

